

In order to polarize a piezoelectric material in high-temperature gas, a temperature-raising portion raises the temperature of the piezoelectric material to a temperature required to polarize the piezoelectric material. A constant-temperature bath has an atmosphere of the temperature of which is kept at the required temperature, and incorporates a polarizing portion that polarizes the piezoelectric material whose temperature is kept at the required temperature. When the temperature of the piezoelectric material is raised quickly to the temperature required to polarize the piezoelectric material by the temperature raising portion and is placed into the constant-temperature bath, the temperature of the piezoelectric material is at a temperature near a set temperature of the inside of the constant-temperature bath, so that the piezoelectric material can be polarized in a short period of time with high precision.